## WHAT IS CLAIMED IS:

	network, where hosts join and leave a multicast group by sending join and leave
2	network, where hosts join and leave a married group by someting join and leave
3	messages, respectively, to an access device in the network, an improvement comprising:
4	a plurality of layers, wherein a layer is a logical channel that carries packets for the
5	multicast group;
6	logic for distributing multicast traffic from the sender over the plurality of layers
7	according to a sending rate associated with each of the plurality of layers;
8	logic for accepting oin and leave messages at the access device from the hosts,
9	wherein the join and leave messages are associated with one or more layers of
10	the plurality of layers; and
11	logic for reducing the aggregate sending rate of the plurality of layers over time.
1	2. The network of claim 1 further comprising logic for raising the sending
2	rate of an unused layer.
1	3. In a network supporting packet multicasting from a sender into the
2	network, where hosts join and leave a multicast group by sending join and leave
3	messages, respectively, to an access device in the network, a method comprising the steps
4	of:
5	accepting multicast join messages at the access device, wherein a join message
6	indicates that a host beyond an interface to the access device requests
7	membership in a layer, where a layer is a logical channel over which packets are
8	multicast to hosts that are members of a multicast group for the layer;
9	transmitting multicast packets to a plurality $\delta$ f layers, wherein multicast packets are
10	transmitted by the sender on a given layer at a rate approximately equal to a
11	sending rate associated with the layer;
12	accepting multicast leave messages at an access device from hosts, wherein a leave
13	message indicates that a host requests removal from a layer indicated in the leave
14	message; and
15	reducing the aggregate sending rates for each of the layers over time, thereby
16	reducing a reception rate of a host that is joined to a fixed set of layers.

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The method of claim 3, further comprising a step of offsetting a

- 2 reduced aggregate reception rate at a host due to a reduced aggregate sending rate at the
- 3 sender by the host joining additional layers, if a reception rate at the host is to be
- 4 maintained.

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